

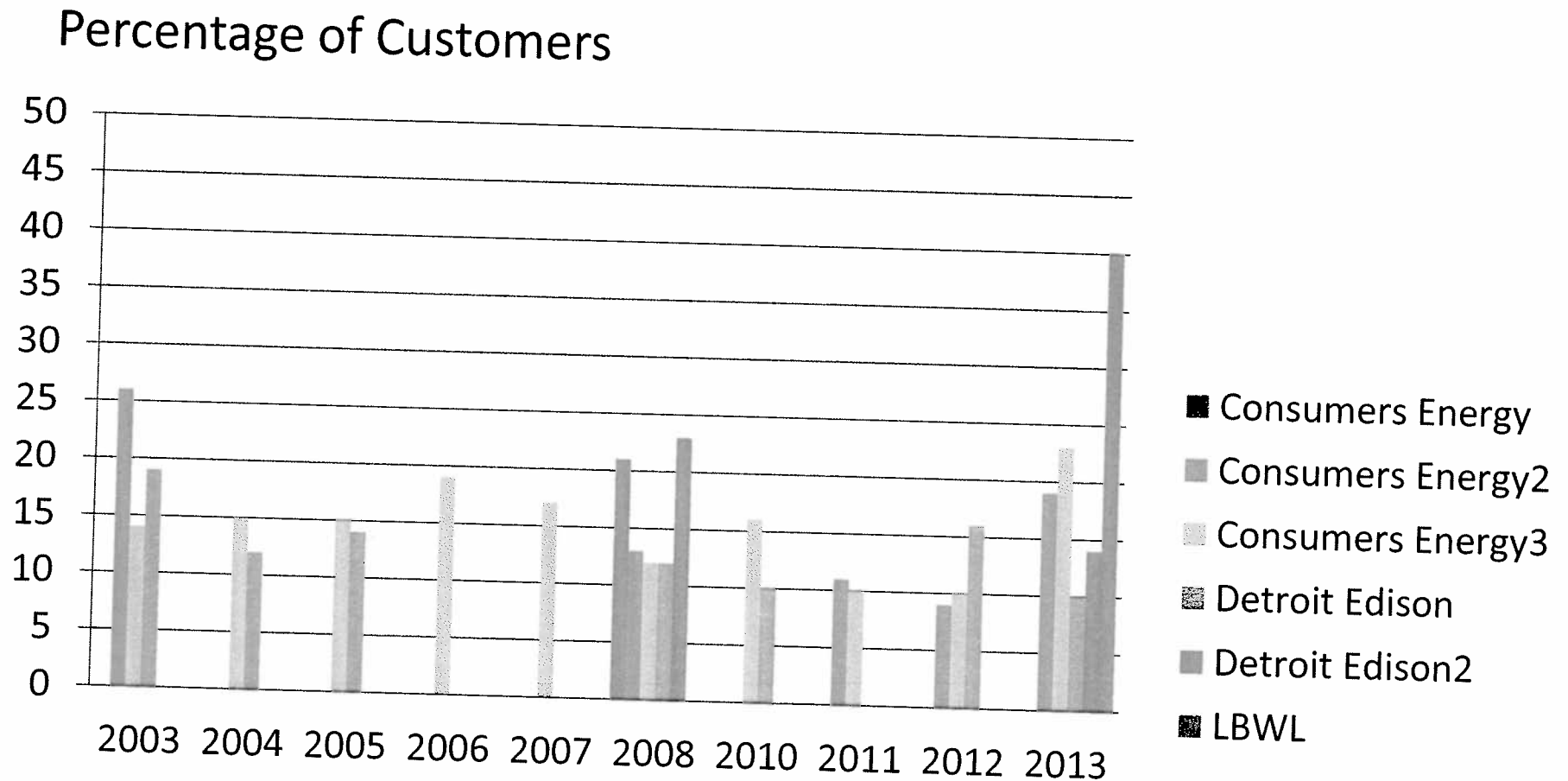
Michigan House of Representatives Energy and Technology Committee Storm Restoration Presentation

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Development

Lansing Board of Water & Light

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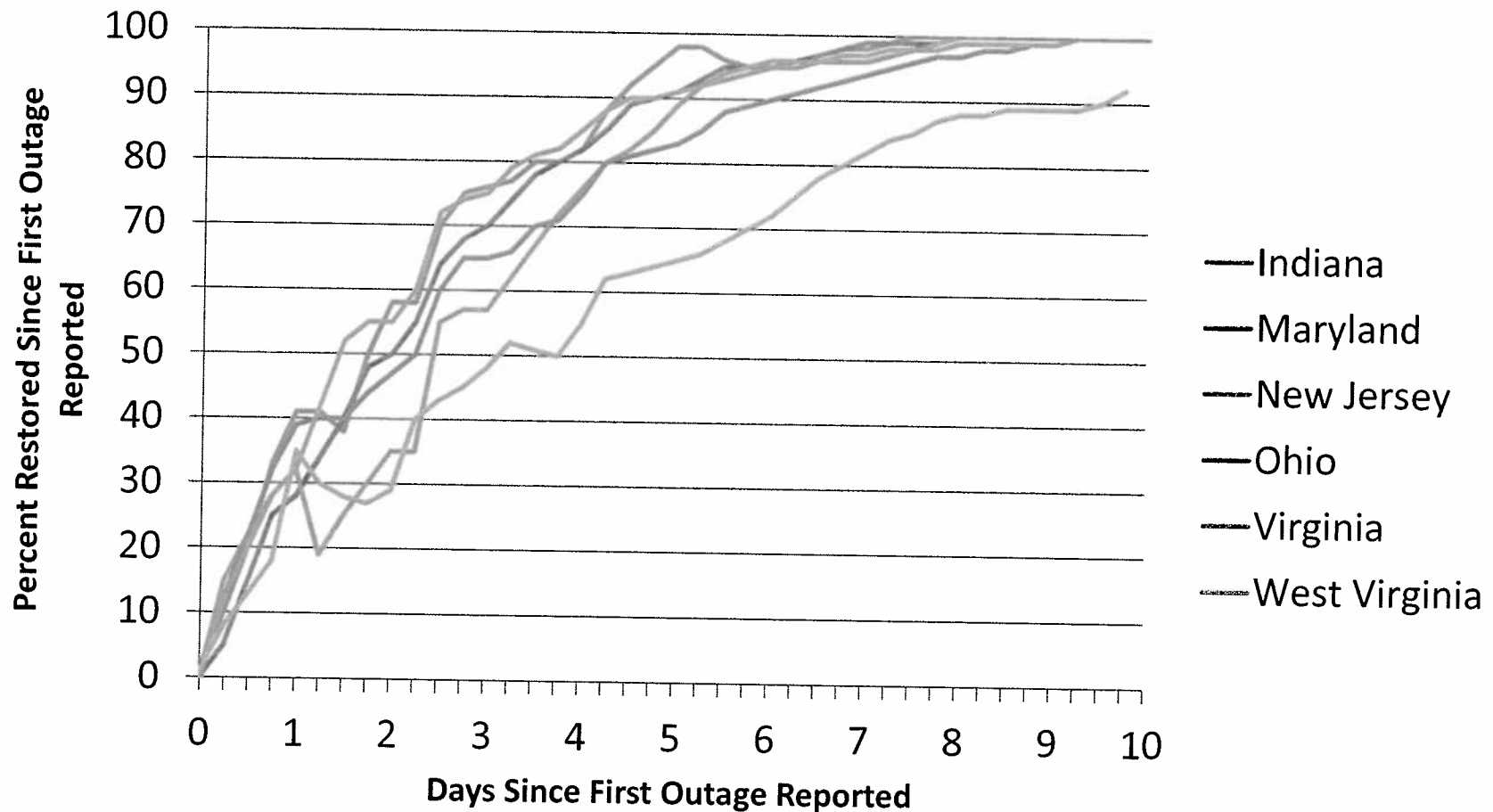
Percentage of Customers Out of Service Catastrophic Storms



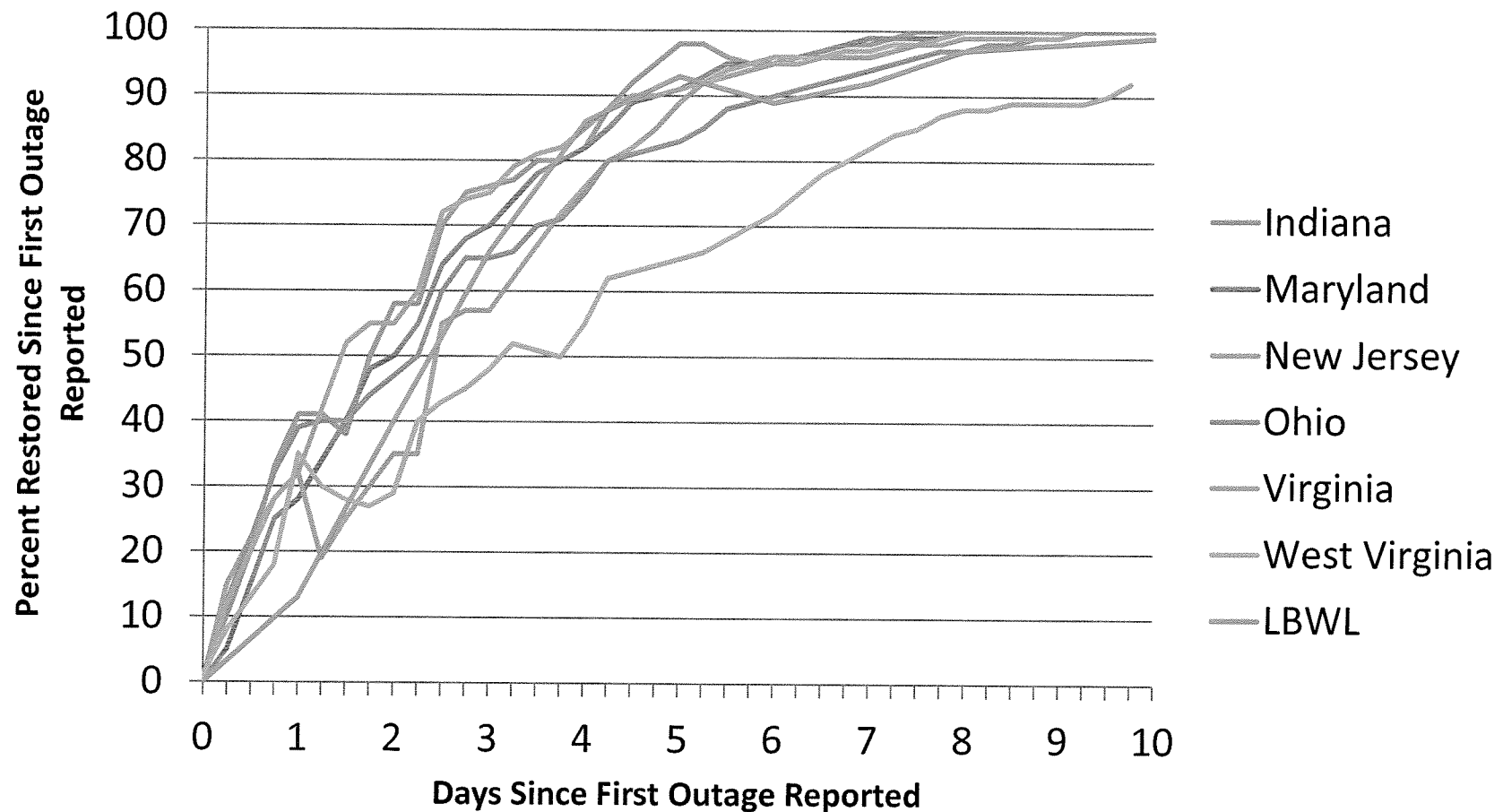
Winter Storm Restoration Periods

Company/State	Customer Outages (%)	Restoration Days
JCPL/New Jersey	39	10
PSEG/New Jersey	29	9
PSNH/New Hampshire	65	14
Unitil/New Hampshire	51	10
NHEC/New Hampshire	61	14
National Grid/New Hampshire	60	11
Kentucky Utilities/Kentucky	30	10
Kentucky Power/Kentucky	10	10
CL&P/Connecticut	65	11
Toronto/Ontario	40	10

Restoration Curves for Catastrophic Events



Restoration Curves for Catastrophic Events



Storm Restoration Plan

- LBWL has a restoration plan that is;
 - Based on the Utility Industry Best Practices,
 - Safety conscious, and
- Continuously monitor weather up to a week in advance
- Weekly operations meeting to identify any reliability issues in the coming week
 - identified and began tracking ice storm
- Reserve crews for impending storm
 - Three LBWL crews available late Saturday evening
 - All LBWL crews available Sunday morning
 - Mutual assistance call early Sunday
- Secure sufficient material and equipment
- Restoration consistent with plan priorities

LBWL Restoration Priorities

- Downed power lines and damaged distribution equipment
- Public Safety
- Primary distribution
- Secondary distribution and individual customers
- Preventive maintenance and individual customer issues

Mutual Assistance Agreements

Existing Agreements

- Michigan Municipal Electric Association (35 Municipal utilities)
- Consumers Energy

New Agreements

- Asplundh
- Kent Power
- Hydaker-Wheatlake
- FEMA Mutual Aid (Upon a declaration of a State of Emergency)

Pending Agreements

- DTE Energy (under negotiations)
- American Public Power Association (under negotiations)

BWL Line & Tree Crews Utilized for December 2013 Storm

Restoration = 62 Crews

LBWL Crews	Contract Crew -Municipal	Contract Crew - Other
Line Crews (6)	Coldwater (1)	Hydaker-Wheatlake (5)
Electric Service Workers (3)	Holland (2)	Asplund (7)
BWL Tree crews (1)	Zeeland (1)	Kent Power (13)
Wright Tree Crews (4)	Sturgis (1)	Wright Tree Service (10)
	Marquette (1)	
	Traverse City (2)	
	Sebewaing (1)	
	Grand Haven (2)	
	Hillsdale (1)	
	Marshall (1)	
Total = 14 Crews	Total = 13 Crews	Total = 35 Crews

Storm Restoration Initiatives

- Immediate fixes to outage management system
- Hire additional line workers
- Review tree trimming policy
- Create a crisis communications plan
- Cooperate with local organizations to assist vulnerable populations
- Improve communications with local government officials and legislators
- Continue deployment of smart grid and AMI technology

Thank You

Questions?